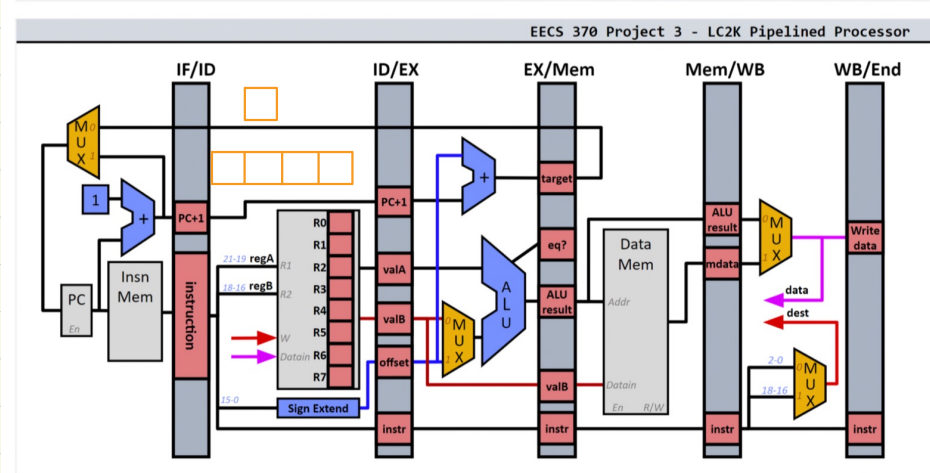
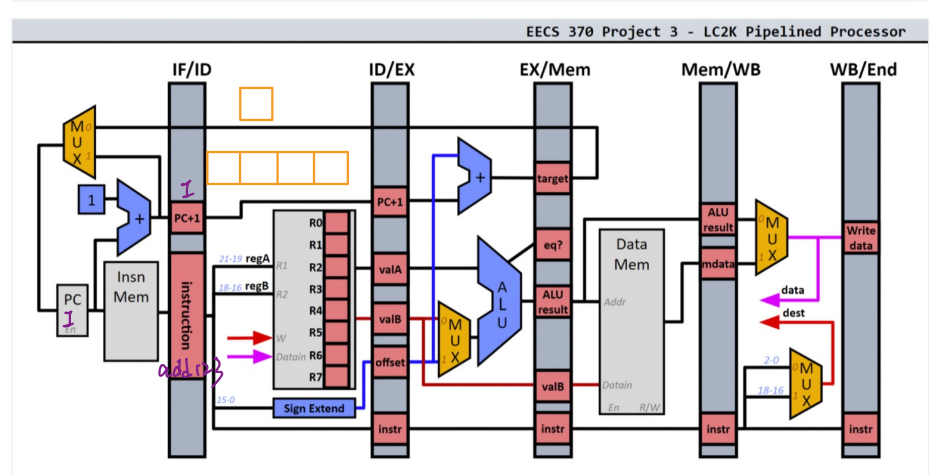
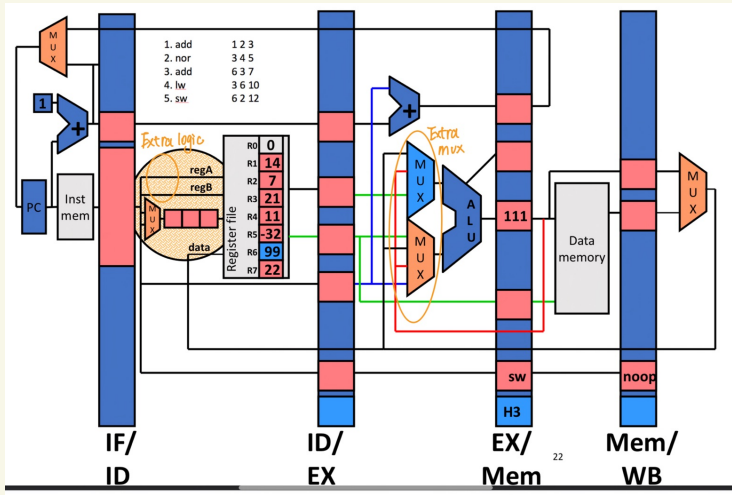


ADD/NOR $regA + regB$.

LW/SW $regA + offset$.

Halt 0

Noop 0



| | | | | |
|----|------|-------|----|------|
| 1 | lw | 0 | 1 | poop |
| 2 | lw | 0 | 2 | vape |
| 3 | lw | 0 | 3 | one |
| 4 | noop | | | |
| 5 | noop | | | |
| 6 | noop | | | |
| 7 | add | 1 | 4 | 4 |
| 8 | add | 2 | 5 | 5 |
| 9 | add | 3 | 6 | 6 |
| 10 | halt | | | |
| 11 | poop | .fill | 30 | |
| 12 | vape | .fill | 2 | |
| 13 | one | .fill | 1 | |

no gap ① ADD/NOR

② LW

③ BEQ

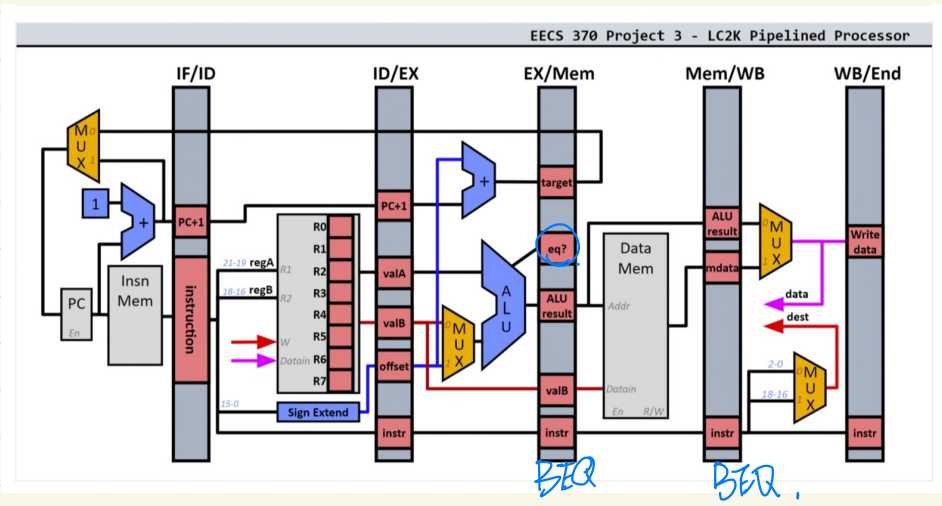
one gap ① ADD/NOR

② LW.

two gap ① ADD/NOR

② LW.

Control Hazard.



if (state.instr.eq = 1 & opcode(state.instr) == BEQ).

newState.PC = Branch-target.

Newstate.ZFID / ID/EX / EX/MEM = noop